

# ENZYMES HAVING CARBOXYMETHYL CELLULASE ACTIVITY AND METHODS OF USE THEREOF

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## ABSTRACT

The invention relates to carboxymethyl cellulases and to polynucleotides encoding the carboxymethyl cellulases. In addition methods of designing new carboxymethyl cellulases and method of use thereof are also provided. The carboxymethyl cellulases have increased activity and stability at increased pH and temperature.

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